



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
Post Office Box 7
Catawba, SC 29704-0007

FED EX NO. 7754 0972 1140

January 13, 2016

Mr. Heinz Kaiser, Manager
Air Toxics
SCDHEC Bureau of Air Quality
2600 Bull Street
Columbia SC 29201-1708

Re: MACT II Excess Emissions and Monitoring System Performance Reports
Air Permit No. TV 2440-0005

Dear Mr. Kaiser:

The purpose of this submittal is to meet the quarterly excess emission reporting requirements applicable to the Resolute Forest Products – Catawba Mill associated with the National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry (40 CFR 63, Subpart MM). The sources covered under Subpart MM are the No. 2 Recovery Boiler, No. 3 Recovery Boiler, No. 2 and No. 3 Smelt Dissolving Tank Vent, and the No. 2 Lime Kiln. This submittal meets the requirements of the Excess Emissions and Continuous Monitoring System (CMS) Performance Report pursuant to Sections 63.867(c) and 63.10(c), respectively.

Excess emissions and CMS downtime for the reporting period were less than 1% and 5% respectively for all systems. Therefore, only the summary reports are attached as allowed in §63.10(e)(3)(vii). For SSM purposes when an emission has occurred, specific information about the type and duration is reported on the enclosed log(s). All SSM events were consistent with the SSM Plan.

Based on information and belief formed after reasonable inquiry, I certify to the best of my knowledge, that the statements and information in this submission are true, accurate, and complete. If you have any questions or require additional information, please contact Dale Herendeen at (803) 981-8009.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Scott Palmer'.

Scott Palmer
General Manager

SP/dlh
File 232.12

Enclosures

cc: Zach Pensa, Midlands EQC Lancaster

QUARTERLY REPORT SUMMARY

GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE

Pollutant: Opacity
Time Period: Minutes
Reporting Period: October 1, 2015 through December 31, 2015
Process Unit Description: No. 2 Recovery Boiler
Company: Resolute Forest Products – Catawba Mill
Emission Limits: 35%
Monitor Manufacturer(s) and Model Number(s): Teledyne Monitor Labs / Light Hawk 560 Opacity Monitor
Last CMS Certification or Audit Date: Certification: October 20, 2006 / Audit: October 7, 2015
Total Source Operating Time in Reporting Period: 130,575 Minutes

EMISSION DATA SUMMARY

Reason for Excess Emissions	Duration (minutes)	
	Over 35%	Over 20% for 60 minutes
A. Startup/Shutdown	0	0
B. Malfunctions		
Process/Instrument System	0	0
Control Equipment	54	396
Fuel Problems	0	0
Other Known Cause	0	0
Other Unknown Cause	0	0
Total Number of Incidents	4	1
Excess Emissions/Process Operating Time	0.04 %	NA

CMS PERFORMANCE SUMMARY

Reason for Monitor Downtime	Duration (minutes)
Monitor Equipment Malfunctions	2324
Non-Monitor Equipment Malfunctions	0
Quality Assurance	288
Other Known Cause	0
Other Unknown Cause	0
Total Number of Incidents	70
Percent Monitor Downtime	2.00 %

There were no changes in the continuous monitoring systems, processes, or control devices since the last reporting period.

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature:  1/15/16

QUARTERLY REPORT SUMMARY

GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE

Pollutant: Opacity
Time Period: Minutes
Reporting Period: October 1, 2015 through December 31, 2015
Process Unit Description: No. 3 Recovery Boiler
Company: Resolute Forest Products – Catawba Mill
Emission Limits: 35%
Monitor Manufacturer(s) and Model Number(s): Teledyne Monitor Labs / Light Hawk 560 Opacity Monitor
Last CMS Certification or Audit Date: Certification: July 31, 2010 / Audit: October 7, 2015
Total Source Operating Time in Reporting Period: 126,100 Minutes

EMISSION DATA SUMMARY

Reason for Excess Emissions	Duration (minutes)	
	Over 35%	Over 20% for 60 minutes
A. Startup/Shutdown	0	0
B. Malfunctions		
Process/Instrument System	0	0
Control Equipment	0	0
Fuel Problems	0	0
Other Known Cause	0	0
Other Unknown Cause	0	0
Total Number of Incidents	0	0
Excess Emissions/Process Operating Time	0.00 %	NA

CMS PERFORMANCE SUMMARY

Reason for Monitor Downtime	Duration (minutes)
Monitor Equipment Malfunctions	0
Non-Monitor Equipment Malfunctions	126
Quality Assurance	0
Other Known Cause	0
Other Unknown Cause	0
Total Number of Incidents	1
Percent Monitor Downtime	0.10 %

There were no changes in the continuous monitoring systems, processes, or control devices since the last reporting period.

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature:



1/15/16

QUARTERLY REPORT SUMMARY

GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE

Pollutant: Opacity
Time Period: Minutes
Reporting Period: October 1, 2015 through December 31, 2015
Process Unit Description: No. 2 Lime Kiln
Company: Resolute Forest Products – Catawba Mill
Emission Limits: 20%
Monitor Manufacturer(s) and Model Number(s): Monitor Labs USI 550 Opacity Monitor
Last CMS Certification or Audit Date: Certification: October 27, 2012 / Audit: October 7, 2015
Total Source Operating Time in Reporting Period: 126,610 Minutes

EMISSION DATA SUMMARY

Reason for Excess Emissions	Duration (minutes)	
	Over 20%	Over 20% for 60 minutes
A. Startup/Shutdown	12	0
B. Malfunctions		
Process/Instrument System	0	0
Control Equipment	36	0
Fuel Problems	0	0
Other Known Cause	6	0
Other Unknown Cause	0	0
Total Number of Incidents	6	0
Excess Emissions/Process Operating Time	0.04 %	NA

CMS PERFORMANCE SUMMARY

Reason for Monitor Downtime	Duration (minutes)
Monitor Equipment Malfunctions	66
Non-Monitor Equipment Malfunctions	0
Quality Assurance	66
Other Known Cause	0
Other Unknown Cause	0
Total Number of Incidents	4
Percent Monitor Downtime	0.10 %

There were no changes in the continuous monitoring systems, processes, or control devices since the last reporting period.

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature:

 1/15/16

QUARTERLY REPORT SUMMARY

GASEOUS AND OPACITY EXCESS EMISSION AND CONTINUOUS MONITORING SYSTEM PERFORMANCE

Pollutant: Particulate Matter

Time Period: Hours

Reporting Period: October 1, 2015 through December 31, 2015

Process Unit Description: No. 2 and No. 3 Smelt Dissolving Tank Vent

Company: Resolute Forest Products – Catawba Mill

Emission Limits: 0.2 lbs/ton BLS

Operating Parameters: Differential Pressure > 1.5 inches of water column
Liquid Flow Rate > 65 gpm

Monitor Manufacturer(s) and Model Number(s): DP – Rosemount 3051CD2A02A1AM5E55
Liquid Flow Rate – Foxboro IMT25PDADB10N-AB

Last CMS Certification or Audit Date: Certification: August 3, 2004 (both)
Audits: September 2, 2015 (DP), August 13, 2015 (Flow)

Total Source Operating Time in Reporting Period: 2,172 hours

EMISSION DATA SUMMARY

Reason for Excess Emissions	Duration (hrs)
A. Startup/Shutdown	0
B. Malfunctions	
Process System	8
Control Equipment	0
Other Known Cause	0
Other Unknown Cause	0
Total Number of Incidents	2
Excess Emissions / Process Operating Time	0.37 %

CMS PERFORMANCE SUMMARY

Reason for Monitor Downtime	Duration (hrs)
Monitor Equipment Malfunctions	0
Non-Monitor Equipment Malfunctions	0
Quality Assurance	0
Other Known Cause	0
Other Unknown Cause	0
Total Number of Incidents	0
Percent Monitor Downtime	0.00 %

There were no changes in the continuous monitoring systems, processes, or control devices since the last reporting period.

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer General Manager

Signature:  1/15/16



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CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Recovery Boiler No. 2

Reporting Period 10/1/15 to 12/31/15

Permit Conditions 5.C.07.2(A), 5.C.14, & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	10/1/2015	8:54 AM	38	x			6	South EP field outlet grounded	Reduced liquor and air; repaired South EP field
2	10/1/2015	9:12 AM	avg>20%	x			396	South EP field outlet grounded	Reduced liquor and air; repaired South EP field
3	10/1/2015	9:42 AM	36	x			6	South EP field outlet grounded	Reduced liquor and air; repaired South EP field
4	10/1/2015	11:12 AM	57	x			12	South EP field outlet grounded	Reduced liquor and air; repaired South EP field
5	10/2/2015	1:45 PM	-	x			87	Reading too low	Performed calibration on monitor
6	10/3/2015	2:06 AM	-	x			37	out of alignment	realigned monitor
7	10/4/2015	5:35 AM	-	x			6	out of alignment	realigned monitor
8	10/7/2015	9:30 AM	-	x			288	Quarterly PM	Completed
9	10/11/2015	2:18 AM	-	x			42	Out of alignment	Realigned monitor
10	10/11/2015	1:00 PM	-	x			15	Out of alignment	Realigned monitor
11	10/12/2015	10:25 AM	-	x			17	Monitor Issue, black out	Reduced air, realigned monitor
12	10/12/2015	10:54 AM	-	x			36	Monitor Issue, black out	Reduced air, realigned monitor
13	10/14/2015	9:48 AM	-	x			32	Out of alignment	Realigned monitor
14	10/14/2015	6:48 PM	-	x			33	Out of alignment	Realigned monitor
15	10/15/2015	8:30 AM	-	x			40	Out of alignment	Realigned monitor
16	10/15/2015	1:00 PM	-	x			18	Out of alignment	Realigned monitor
17	10/16/2015	8:18 PM	-	x			42	Out of alignment	Realigned monitor
18	10/17/2015	1:06 AM	-	x			39	Out of alignment	Realigned monitor
19	10/17/2015	4:30 AM	-	x			27	Out of alignment	Realigned monitor
20	10/17/2015	12:48 PM	-	x			23	Out of alignment	Realigned monitor
21	10/17/2015	10:30 PM	-	x			40	Out of alignment	Realigned monitor
22	10/18/2015	1:40 PM	-	x			7	Out of alignment	Realigned monitor
23	10/19/2015	1:54 AM	-	x			21	Out of alignment	Realigned monitor
24	10/19/2015	1:54 PM	-	x			41	Out of alignment	Realigned monitor
25	10/20/2015	10:10 AM	-	x			32	Out of alignment	Realigned monitor
26	10/20/2015	7:36 PM	-	x			12	Out of alignment	Realigned monitor
27	10/21/2015	9:36 AM	-	x			24	out of alignment	Realigned monitor
28	10/22/2015	7:18 PM	-	x			37	out of alignment	Realigned monitor
29	10/23/2015	9:36 AM	-	x			44	out of alignment	Realigned monitor
30	10/24/2015	2:12 PM	-	x			18	out of alignment	Realigned monitor
31	10/25/2015	11:54 PM	-	x			51	out of alignment	Realigned monitor
32	10/26/2015	8:48 AM	-	x			22	out of alignment	Realigned monitor
33	10/26/2015	2:54 PM	-	x			16	out of alignment	Realigned monitor
34	10/26/2015	4:18 PM	-	x			17	out of alignment	Realigned monitor
35	10/28/2015	12:12 AM	-	x			33	out of alignment	Realigned monitor
36	10/29/2015	7:54 AM	-	x			47	out of alignment	Realigned monitor
37	10/29/2015	3:00 PM	-	x			15	out of alignment	Realigned monitor
38	10/30/2015	12:05 AM	-	x			6	out of alignment	Realigned monitor
39	10/31/2015	8:42 AM	-	x			33	out of alignment	Realigned monitor
40	10/31/2015	3:42 PM	-	x			78	out of alignment	Realigned monitor
1	11/1/2015	2:18 AM	-	x			20	out of alignment	Realigned monitor
2	11/18/2015	10:45 PM	-	x			10	out of alignment	Realigned monitor
3	11/19/2015	12:54 AM	-	x			18	out of alignment	Realigned monitor
4	11/20/2015	2:25 AM	-	x			70	out of alignment	Realigned monitor
5	11/20/2015	7:48 PM	-	x			17	out of alignment	Realigned monitor
6	11/21/2015	12:30 AM	-	x			35	System alarm, purge failure monitor	Replaced purged filters



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TV

CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Recovery Boiler No. 2

Reporting Period 10/1/15 to 12/31/15

Permit Conditions 5.C.07.2(A), 5.C.14, & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Duration (Minutes)	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2				
7	11/21/2015	11:00 AM	-	x				20	out of alignment	Realigned monitor
8	11/22/2015	6:48 AM	-	x				22	out of alignment	Realigned monitor
9	11/22/2015	8:10 PM	-	x				45	System alarm, purge failure monitor	Replaced purge switch
10	11/23/2015	8:00 PM	-	x				44	out of alignment	Realigned monitor
11	11/24/2015	9:00 AM	-	x				33	out of alignment	Realigned monitor
12	11/24/2015	6:35 PM	-	x				15	out of alignment	Realigned monitor
13	11/25/2015	9:00 AM	-	x				36	out of alignment	Realigned monitor
14	11/25/2015	3:45 PM	-	x				35	out of alignment	Realigned monitor
15	11/26/2015	12:18 AM	-	x				27	out of alignment	Realigned monitor
16	11/26/2015	2:40 AM	-	x				10	out of alignment	Realigned monitor
17	11/27/2015	11:30 AM	-	x				16	out of alignment	Realigned monitor
18	11/28/2015	12:54 AM	80	x				30	EP breaker tripped	Pulled liquid, put oil in, reset EP
1	12/1/2015	1:25 AM	-	x				10	out of alignment	Realigned monitor
2	12/1/2015	4:30 PM	-	x				36	out of alignment	Realigned monitor
3	12/3/2015	9:12 PM	-	x				33	out of alignment	Realigned monitor
4	12/4/2015	10:36 AM	-	x				24	out of alignment	Realigned monitor
5	12/4/2015	6:50 PM	-	x				12	out of alignment	Realigned monitor
6	12/6/2015	2:12 PM	-	x				58	out of alignment	Realigned monitor
7	12/8/2015	1:25 AM	-	x				10	out of alignment	Realigned monitor
8	12/8/2015	4:55 PM	-	x				15	out of alignment	Realigned monitor
9	12/15/2015	9:45 AM	-	x				15	out of alignment	Realigned monitor
10	12/15/2015	2:00 PM	-	x				35	out of alignment	Realigned monitor
11	12/16/2015	7:50 AM	-	x				20	out of alignment	Realigned monitor
12	12/16/2015	12:30 PM	-	x				40	out of alignment	Realigned monitor
13	12/20/2015	11:00 AM	-	x				10	out of alignment	Realigned monitor
14	12/20/2015	4:50 PM	-	x				20	out of alignment	Realigned monitor
15	12/22/2015	4:48 AM	-	x				24	out of alignment	Realigned monitor
16	12/23/2015	8:30 AM	-	x				330	Excessive dust drift	Cleaned lenses and calibrated
17	12/30/2015	12:24 PM	-	x				71	out of alignment	Realigned monitor

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

Scott Palmer

1/15/16



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CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Recovery Boiler No. 3

Reporting Period 10/1/15 to 12/31/15

Permit Conditions 5.C.07.3, 5.C.07.12, 5.C.15, & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.


Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Duration (Minutes)	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2				
	10/16/15	8:54 AM	avg>20%	x				126	Bypassed East side of EP because of broken gear box	Reduced liquor and air, repaired gear box
There were no excursion events or downtime during the month of November 2015.										
There were no excursion events or downtime during the month of December 2015.										

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

 1/15/16



Resolute Forest Products – Catawba Mill
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TV

CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Lime Kiln No. 2

Reporting Period 10/1/15 to 12/31/15

Permit Conditions 5.C.07.2(A), 5.C.07.12(B), 5.C.17(A), & MACT.5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	10/9/15	8:48 AM	23	x			12	Heating up kiln after a shut down	Stabilized after start-up
2	10/9/15	2:06 PM	-	x			24	Bad condensor fan motor in Coas analyzer room	Hooked up air hose
3	10/9/15	8:12 PM	25	x			18	EP field 3 tripped	Reset EP
1	11/21/15	10:24 AM	28	x			6	EP Tripped	Added air, cut mud, reset EP
2	11/23/15	1:24 AM	24	x			6	EP Tripped	I/E calibrated O2 gas analyzer
1	12/13/15	6:00 PM	-	x			12	Opacity spiked, operator wanted monitor checked.	Cleaned lens and aligned
2	12/16/15	12:54 PM	-	x			66	Quarterly Calibration	Completed calibration
3	12/23/15	2:54 PM	-	x			30	Heavy rain caused opacity meter to spike	I/E cleaned opacity lens
4	12/24/15	1:24 PM	48	x			6	O2 gas analyzer failed causing EP to trip	I/E corrected O2 gas analyzer and returned EP
5	12/30/15	12:36 PM	31	x			6	Heavy rain caused opacity meter to spike	None

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

 1/15/16



Resolute Forest Products – Catawba Mill
5300 Cureton Ferry Road
Post Office Box 7
Catawba, SC 29704-0007

ID 2510, ID 5110

SIP, NSPS

CONTINUOUS EMISSION MONITOR QUARTERLY REPORT LOG

Smelt Dissolving Tank Vent Scrubber

Reporting Period 10/1/15 to 12/31/15

Permit Conditions 5.C.07.2; 07.B.MACT.5

This report is for variations outside of surrogate monitoring parameters or permit exception conditions.


Incident No.	Date	Start Time (am or pm)	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			Pump Pressure, Flow, delta P			
There were no excursion events or downtime during the month of October 2015.						
1	11/17/15	9:00 PM	Weak Wash Flow	300	Shut down RB3, had to cut back scrubber flow	Returned RB3 back to service
1	12/7/15	12:00 PM	Weak Wash Flow	180	Had to reduce black liquor firing rate due to Mill operations	Stablized RB loading and returned BL firing rate

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: Scott Palmer

General Manager

Signature:

 1/15/16